APPENDIX A - DATA VALIDATION REVIEW

The following deviation from the proposed field sampling protocols occurred during the sampling:

a) Samples for VOCs compounds were sampled at the lowest possible non-disruptive purging rate. Maximum sampling flow rate for VOCs observed was 250 ml/min.

b) Samples for total and fecal coliform were collected in two plastic 100-ml containers and not with whirl bags. These containers arrived sterilized from the respective laboratory. The containers from the United States laboratory were sealed with a plastic heat-shrunk rap around the lid. The seal was not broken until right before the sample was collected. The containers prepared in Mexico were autoclaved for sterilization and were sealed with a special autoclave adhesive tape.

c) Samples to be analyzed for major cations and anions and for trace metals were collected in three plastic one-liter bottles. The first one-liter bottle was used for collecting samples for analysis of major cations and anions. This sample was not acidified or filtered. The second one-liter bottle was used for collecting samples for analysis for nitrate. The samples for the Mexican laboratory were preserved with sulfuric acid (H_2SO_4) to a pH of <2. The sample for the United States laboratory was not preserved since the laboratory would be analyzing the samples within the 48-hour holding time. The other one-liter bottle, for trace metals analysis, was preserved with nitric acid (HNO_3) and was filtered. Duplicate samples sent to the Arizona State Laboratory were collected according to the project sampling plan.

d) Performance standard samples were not used at this time.

e) The labs used for this project did not require doubling the sampling volume for their laboratory QA/QC sample.

f) Field carbonate and bicarbonate alkalinity and dissolved oxygen parameters were not determined in the groundwater samples at this time. All samples were collected within the established well purging criteria.

SAMPLES HOLDING TIME REQUIREMENTS

Chain of Custody records and laboratory reports were checked for appropriate sample holding times requirements. All samples were analyzed within the required holding times.

TRAVEL BLANKS

Travel blanks were used to check for contamination during shipping and handling during both sampling events. The travel blanks were prepared by the laboratory and analyzed for the same VOCs parameters as the groundwater samples. None of the U.S. travel blanks show the presence of any VOCs.

The June 1997 samples did not include a trip blank for the Mexican samples. Total petroleum hydrocarbons (1.70 mg/l) were detected in the September 1997 travel blank for the Mexican samples. Chloroform (0.002320 mg/l) and Methylene Chloride (0.00524 mg/l) were also detected in the travel

blank. Chloroform (0.02637 mg/l) was detected in the February 1998 the trip blank for the Mexican samples. Analytical results did not present any constituent in significant amounts.

FIELD BLANKS

Five field blanks were collected during the three sampling activities. All of the field blanks were prepared using Arizona State Laboratory-supplied DI water.

Field blank NGW-16 was collected on June 17, 1997 at NGW-10. The U.S. laboratory detected boron (0.22 mg/l), silica (3.2 mg/l), sulfate (74 mg/l) and TDS (20 mg/l) in this field blank. The Mexican laboratory detected calcium (79.65 mg/l) and silica (4.4 mg/l).

Field blank NGW-17 was collected on June 18, 1997 at the location of NGW-4. The U.S. and Mexican laboratories detected chloroform at concentrations of 0.0062 mg/l and 0.0076 mg/l, respectively.

On September 23, 1997, field blank NGW-16 was collected at the location of NGW-10. Both the U.S. and Mexican laboratories detected chloroform at concentrations of 0.0057 mg/l and 0.00423 mg/l, respectively. The Mexican laboratory also detected TPH (4 mg/l).

On September 24, 1997, field blank NGW-17 was collected at the location of NGW-4.Both the U.S. and Mexican laboratories detected chloroform at concentrations of 0.0095 mg/l and 0.00775 mg/l, respectively. The Mexican laboratory also detected TPH (0.50 mg/l).

One field blank was collection on February 10, 1998, NGW-17, at the location of NGW-6. The U.S. laboratory detected TPH (0.27 mg/l). The Mexican laboratory detected silica (3.6 mg/l), fecal and total coliform (13 MPN/100 ml), chloroform (0.02158 mg/l) and toluene (0.0029 mg/l).

PRECISION

Precision was determined through duplicate analyses. Precision was calculated as a relative percent difference (RPD) as follows:

$$\text{Precision} = \frac{(a-b)}{((a+b)/2)} \times 100$$

where:
a = larger value of two duplicate analyses
b = smaller value of two duplicate analyses

Duplicate samples were collected at NGW-5 (duplicate NGW-15) and NGW-9 (duplicate NGW-14) during the June 1997 sampling activity, at NGW-4 (duplicate NGW-15) and NGW-9 (duplicate NGW-15) during the September 1997 sampling activity and at NGW-9 (duplicate NGW-15) during the February 10, 1998 sampling activity. These duplicate samples were used to determine the project sampling precision. Precision was defined in the project sampling plan as the relative percent difference using a field duplicate sample. Targeted precision for VOCs is 30% or lower and for metals

35% or lower. These limits apply to any measurement that is at least ten times greater than the background level of the detector or the method detection limit. For the U.S. laboratory, all detected metals and VOCs that had a concentration ten times or higher than the respective method detection limit, met the project precision criteria. The Mexican laboratory results exceeded the target precision for TCE and silica in June 1997, for PCE in September 1997 and for silica and PCE in February 1998. The relative percent differences are included in Tables 6, 7 and 8.

ACCURACY

Accuracy was determined by the analyses of surrogate and matrix spiked samples. Accuracy was calculated as percent recovery as follows:

$$\text{Accuracy} = \frac{(a-b)}{c} \times 100$$

where:
a = measured concentration in spiked sample
b = measured concentration in unspiked sample
c = actual concentration of spike added

Recovery is generally expected to be within 70-130%

Accuracy was determined by the analysis of surrogate and matrix spiked samples and calculated as percent recovery. Targeted percent recovery for VOCs was within 70-130 %. The contract laboratory analytical reports submitted to ADEQ were reviewed for surrogate recovery data. All surrogate recoveries reported by these labs were within these criteria. The evaluation of the analytical lot is shown in Table A1.

For the data from the Mexican laboratories, for volatile organic compounds, the accuracy was determined through the analysis of additional samples with known concentration surrogate standards. It is calculated as a percentage of recovery. The recommended range is 70 - 130%. The evaluation of the analytical lot is shown in Table A2. The accuracy for the data from the Mexican laboratories was calculated as follows:

$$\%\ \text{Recovery} = \frac{b}{a} \times 100$$

where:
a = theoretical concentration in spiked sample
b = measured concentration in spiked sample

ION BALANCES

A cation/anion balance was calculated for all groundwater samples collected by the United States. Targeted ion balance was set to be 10% or less discrepant. All samples indicated a balance with no more than 10% difference.

Table A1 - Evaluation of the Analytical Lot of Samples for VOCs for July 1996 through February 1998 (U.S. Laboratory)

SAMPLE NO.	SAMPLE ID	DATE	SURROGATE	% RECOVERY
9607-03529-1	NGW-8	7-18-96	2-Chloro-m-Xylene	88.9
9607-03529-2	TRAVEL BLANK	7-18-96	2-Chloro-m-Xylene	86
9607-03529-3	NGW-9	7-18-96	2-Chloro-m-Xylene	88.7
9607-03529-4	TRAVEL BLANK	7-18-96	2-Chloro-m-Xylene	93.9
9607-03529-5	NGW-10	7-18-96	2-Chloro-m-Xylene	97.1
9607-03529-6	TRAVEL BLANK	7-18-96	2-Chloro-m-Xylene	95.8
9607-03545-1	NGW-11	7-18-96	2-Chloro-m-Xylene	98.5
9607-03545-2	TRAVEL BLANK	7-18-96	2-Chloro-m-Xylene	102
9607-03545-3	NGW-12	7-18-96	2-Chloro-m-Xylene	99.8
9607-03545-4	TRAVEL BLANK	7-18-96	2-Chloro-m-Xylene	104
9704-02055-001	NGW-9	4-15-97	2-Bromo-3-Chloropropane	109
			Fluorobenzene	100
9704-02055-002	NGW-8	4-15-97	2-Bromo-3-Chloropropane	124
			Fluorobenzene	109
9704-02055-004	TRAVEL BLANK	4-15-97	2-Bromo-3-Chloropropane	86
			Fluorobenzene	122
9704-01989-001	NGW-13	4-14-97	2-Bromo-3-Chloropropane	114
			Fluorobenzene	96
9704-01989-002	NGW-12	4-14-97	2-Bromo-3-Chloropropane	117
			Fluorobenzene	94
9704-01989-003	NGW-16	4-14-97	2-Bromo-3-Chloropropane	113
			Fluorobenzene	99
9704-01989-004	TRAVEL BLANK	4-15-97	2-Bromo-3-Chloropropane	124
			Fluorobenzene	119
9704-01995-001	NGW-11	4-14-97	2-Bromo-3-Chloropropane	111
			Fluorobenzene	105
9704-01995-002	NGW-14	4-14-97	2-Bromo-3-Chloropropane	104
			Fluorobenzene	97
9704-01995-003	NGW-10	4-14-97	2-Bromo-3-Chloropropane	109
			Fluorobenzene	103
9704-01995-004	TRAVEL BLANK	4-15-97	2-Bromo-3-Chloropropane	108
			Fluorobenzene	100
9704-02019-001	NGW-4	4-15-97	2-Bromo-3-Chloropropane	91
			Fluorobenzene	76
9704-02019-002	NGW-5	4-15-97	2-Bromo-3-Chloropropane	106
			Fluorobenzene	89
9704-02019-003	NGW-17	4-15-97	2-Bromo-3-Chloropropane	118
			Fluorobenzene	99

Table A1 - Evaluation of the Analytical Lot of Samples for VOCs for July 1996 through February 1998 (U.S. Laboratory) (Cont)

SAMPLE NO	SAMPLE ID	DATE	SURROGATE	% RECOVERY
9704-02019-004	TRAVEL BLANK	4-15-97	2-Bromo-3-Chloropropane	106
			Fluorobenzene	99
9704-02030-001	NGW-6	4-14-97	2-Bromo-3-Chloropropane	102
			Fluorobenzene	94
9704-02030-002	NGW-15	4-14-97	2-Bromo-3-Chloropropane	110
			Fluorobenzene	102
9704-02030-003	NGW-7	4-14-97	2-Bromo-3-Chloropropane	108
			Fluorobenzene	117
9704-02030-004	NGW-1	4-14-97	2-Bromo-3-Chloropropane	109
			Fluorobenzene	106
9704-02030-005	TRAVEL BLANK	4-15-97	2-Bromo-3-Chloropropane	115
			Fluorobenzene	112
9706-03821-3	NGW-1	6-28-97	1,2-Dichlorobenzene-d4	99
			Bromofluorobenzene (BFB)	85
9706-03821-4	NGW-4	6-28-97	1,2-Dichlorobenzene-d4	87
			Bromofluorobenzene (BFB)	81
9706-03820-3	NGW-3	6-27-97	1,2-Dichlorobenzene-d4	108
			Bromofluorobenzene (BFB)	92
9706-03820-1	NGW-5	6-30-97	1,2-Dichlorobenzene-d4	88
			Bromofluorobenzene (BFB)	85
9706-03820-2	NGW-15	6-30-97	1,2-Dichlorobenzene-d4	100
			Bromofluorobenzene (BFB)	89
9706-03820-4	TRAVEL BLANK	6-27-97	1,2-Dichlorobenzene-d4	103
			Bromofluorobenzene (BFB)	82
9706-03821-2	NGW-6	6-28-97	1,2-Dichlorobenzene-d4	100
			Bromofluorobenzene (BFB)	85
9706-03821-1	NGW-7	6-27-97	1,2-Dichlorobenzene-d4	99
			Bromofluorobenzene (BFB)	89
9706-03821-5	NGW-17	6-28-97	1,2-Dichlorobenzene-d4	101
			Bromofluorobenzene (BFB)	87
9706-03821-6	TRAVEL BLANK	6-28-97	1,2-Dichlorobenzene-d4	97
			Bromofluorobenzene (BFB)	84
9706-03795-3	NGW-8	6-27-97	1,2-Dichlorobenzene-d4	88
			Bromofluorobenzene (BFB)	85
9706-03795-4	NGW-9	6-27-97	1,2-Dichlorobenzene-d4	97
			Bromofluorobenzene (BFB)	88
9706-03795-5	NGW-14	6-27-97	1,2-Dichlorobenzene-d4	97
			Bromofluorobenzene (BFB)	92
9706-03795-1	NGW-10	6-27-97	1,2-Dichlorobenzene-d4	99

Table A1 - Evaluation of the Analytical Lot of Samples for VOCs for July 1996 through February 1998 (U.S. Laboratory) (Cont)

SAMPLE NO	SAMPLE ID	DATE	SURROGATE	% RECOVERY
			Bromofluorobenzene (BFB)	86
9706-03795-2	NGW-16	6-27-97	1,2-Dichlorobenzene-d4	95
			Bromofluorobenzene (BFB)	87
9706-03795-6	TRAVEL BLANK	6-27-97	1,2-Dichlorobenzene-d4	91
			Bromofluorobenzene (BFB)	90
9706-03782-3	NGW-11	6-27-97	1,2-Dichlorobenzene-d4	106
			Bromofluorobenzene (BFB)	91
9706-03782-2	NGW-12	6-27-97	1,2-Dichlorobenzene-d4	101
			Bromofluorobenzene (BFB)	88
9706-03782--1	NGW-13	6-27-97	1,2-Dichlorobenzene-d4	97
			Bromofluorobenzene (BFB)	94
9706-03782-4	TRAVEL BLANK	6-27-97	1,2-Dichlorobenzene-d4	100
			Bromofluorobenzene (BFB)	87
9709-06170-3	NGW-1	10-08-97	4-Bromofluorobenzene	81
			1,4-Dichlorobenzene	76
9709-06170-2	NGW-6	10-08-97	4-Bromofluorobenzene	82
			1,4-Dichlorobenzene	76
9709-06170-1	NGW-7	10-07-97	4-Bromofluorobenzene	80
			1,4-Dichlorobenzene	75
9709-06170-4	TRAVEL BLANK	10-08-97	4-Bromofluorobenzene	82
			1,4-Dichlorobenzene	75
9709-06205-1	NGW-4	10-08-97	4-Bromofluorobenzene	98
			1,4-Dichlorobenzene	89
9709-06205-2	NGW-15	10-08-97	4-Bromofluorobenzene	98
			1,4-Dichlorobenzene	92
9709-06205-3	NGW-17	10-08-97	4-Bromofluorobenzene	99
			1,4-Dichlorobenzene	92
9709-06205-4	NGW-3	10-08-97	4-Bromofluorobenzene	98
			1,4-Dichlorobenzene	92
9709-06205-5	TRAVEL BLANK	10-09-97	4-Bromofluorobenzene	96
			1,4-Dichlorobenzene	84
9709-06160-1	NGW-10	9-26-97	4-Bromofluorobenzene	90
			1,4-Dichlorobenzene	79
9709-06160-2	NGW-8	9-26-97	4-Bromofluorobenzene	88
			1,4-Dichlorobenzene	75
9709-06160-3	NGW-9	9-26-97	4-Bromofluorobenzene	89
			1,4-Dichlorobenzene	75
9709-06160-4	NGW-14	9-26-97	4-Bromofluorobenzene	89
			1,4-Dichlorobenzene	76

Table A1 - Evaluation of the Analytical Lot of Samples for VOCs for July 1996 through February 1998 (U.S. Laboratory) (Cont)

SAMPLE NO	SAMPLE ID	DATE	SURROGATE	% RECOVERY
9709-06160-5	NGW-13	9-30-97	4-Bromofluorobenzene	72
			1,4-Dichlorobenzene	74
9709-06160-6	TRAVEL BLANK	10-07-97	4-Bromofluorobenzene	87
			1,4-Dichlorobenzene	80
9709-06128-1	NGW-12	9-25-97	4-Bromofluorobenzene	92
			1,4-Dichlorobenzene	82
9709-06128-2	NGW-11	9-25-97	4-Bromofluorobenzene	91
			1,4-Dichlorobenzene	78
9709-06128-3	NGW-16	9-25-97	4-Bromofluorobenzene	92
			1,4-Dichlorobenzene	80
9709-06128-4	TRAVEL BLANK	9-30-97	4-Bromofluorobenzene	72
			1,4-Dichlorobenzene	70
9802-01013-004	NGW-1	2-14-98	4-Bromofluorobenzene	95
			1,4-Dichlorobenzene-d4	89
9802-01013-004	NGW-3	2-14-98	4-Bromofluorobenzene	99
			1,4-Dichlorobenzene-d4	99
9802-01013-006	NGW-4	2-14-98	4-Bromofluorobenzene	95
			1,4-Dichlorobenzene-d4	100
9802-01013-003	NGW-6	2-14-98	4-Bromofluorobenzene	95
			1,4-Dichlorobenzene-d4	90
9802-01013-001	NGW-7	2-13-98	4-Bromofluorobenzene	96
			1,4-Dichlorobenzene-d4	92
9802-01013-008	NGW-8	2-14-98	4-Bromofluorobenzene	92
			1,4-Dichlorobenzene-d4	94
9802-01013-009	NGW-9	2-14-98	4-Bromofluorobenzene	93
			1,4-Dichlorobenzene-d4	96
9802-01013-007	NGW-13	2-14-98	4-Bromofluorobenzene	92
			1,4-Dichlorobenzene-d4	96
9802-01013-010	NGW-15	2-14-98	4-Bromofluorobenzene	92
			1,4-Dichlorobenzene-d4	94
9802-01013-011	TRAVEL BLANK	2-14-98	4-Bromofluorobenzene	93
			1,4-Dichlorobenzene-d4	93
9802-01013-002	NGW-17	2-14-98	4-Bromofluorobenzene	95
			1,4-Dichlorobenzene-d4	91

Table A2 - Evaluation of the Analytical Lot of Samples for VOCs for July 1996 through February 1998 (Mexican Laboratory)

SAMPLE NO.	SAMPLE ID	DATE	SURROGATE	% RECOVERY
4563-1	NGW-13	4/2/97	Toluene	106.64
			Bromofluorobenzene	80.4
			1,2-Dichlorobenzene-d4	92.69
4563-2	NGW-10	4/2/97	Toluene	114.29
			Bromofluorobenzene	81.92
			1,2-Dichlorobenzene-d4	100.22
4563-3	NGW-11	4/2/97	Toluene	117.88
			Bromofluorobenzene	88.08
			1,2-Dichlorobenzene-d4	105.47
4563-4	NGW-14	4/2/97	Toluene	108.24
			Bromofluorobenzene	82.52
			1,2-Dichlorobenzene-d4	104.18
4563-5	NGW-12	4/2/97	Toluene	109.69
			Bromofluorobenzene	77.6
			1,2-Dichlorobenzene-d4	92.35
4563-6	NGW-16	4/2/97	Toluene	110.69
			Bromofluorobenzene	80.12
			1,2-Dichlorobenzene-d4	92.93
4563-7	NGW-9	4/2/97	Toluene	112.93
			Bromofluorobenzene	81.12
			1,2-Dichlorobenzene-d4	104.11
4563-8	NGW-8	4/2/97	Toluene	111.02
			Bromofluorobenzene	77.25
			1,2-Dichlorobenzene-d4	93.76
4563-9	NGW-18	4/2/97	Toluene	113.98
			Bromofluorobenzene	79.31
			1,2-Dichlorobenzene-d4	98.4
4563-10	NGW-11	4/2/97	Toluene	107.12
			Bromofluorobenzene	81.35

Table A2 - Evaluation of the Analytical Lot of Samples for VOCs for July 1996 through February 1998 (Mexican Laboratory) (Cont)

SAMPLE NO.	SAMPLE ID	DATE	SURROGATE	% RECOVERY
			1,2-Dichlorobenzene-d4	103
4563-11	NGW-7	4/2/97	Toluene	113.76
			Bromofluorobenzene	81.62
			1,2-Dichlorobenzene-d4	104.49
4563-12	NGW-6	4/2/97	Toluene	111.72
			Bromofluorobenzene	84.33
			1,2-Dichlorobenzene-d4	103.85
4563-13	NGW-15	4/2/97	Toluene	111.54
			Bromofluorobenzene	80.12
			1,2-Dichlorobenzene-d4	101.16
4563-14	NA	4/2/97	Toluene	113.53
			Bromofluorobenzene	80.81
			1,2-Dichlorobenzene-d4	105.6
4563-15	NGW-4	4/2/97	Toluene	112.95
			Bromofluorobenzene	80.98
			1,2-Dichlorobenzene-d4	106.67
4563-16	NGW-17	4/2/97	Toluene	114.03
			Bromofluorobenzene	80.92
			1,2-Dichlorobenzene-d4	103.15
4563-17	NGW-5	4/2/97	Toluene	108.82
			Bromofluorobenzene	78.92
			1,2-Dichlorobenzene-d4	101.64
5103-1	NGW-13	4/2/97	Toluene	105.31
			Bromofluorobenzene	99.92
			1,2-Dichlorobenzene-d4	84.03
5103-2	NGW-12	4/2/97	Toluene	106.97
			Bromofluorobenzene	98.21
			1,2-Dichlorobenzene-d4	84.16

Table A2 - Evaluation of the Analytical Lot of Samples for VOCs for July 1996 through February 1998 (Mexican Laboratory) (Cont)

SAMPLE NO.	SAMPLE ID	DATE	SURROGATE	% RECOVERY
5103-3	NGW-11	4/2/97	Toluene	99.23
			Bromofluorobenzene	102.41
			1,2-Dichlorobenzene-d4	83.42
5103-4	NGW-10	4/2/97	Toluene	103.76
			Bromofluorobenzene	105.82
			1,2-Dichlorobenzene-d4	87.87
5103-5	NGW-16	4/2/97	Toluene	103.32
			Bromofluorobenzene	98.29
			1,2-Dichlorobenzene-d4	82.67
5103-6	NGW-8	4/2/97	Toluene	103.54
			Bromofluorobenzene	99.15
			1,2-Dichlorobenzene-d4	84.16
5103-7	NGW-9	4/2/97	Toluene	101.22
			Bromofluorobenzene	98.52
			1,2-Dichlorobenzene-d4	79.08
5103-8	NGW-14	4/2/97	Toluene	98.89
			Bromofluorobenzene	103.42
			1,2-Dichlorobenzene-d4	82.67
5103-9	NGW-7	4/2/97	Toluene	104.76
			Bromofluorobenzene	108.00
			1,2-Dichlorobenzene-d4	83.17
5103-10	NGW-6	4/2/97	Toluene	98.67
			Bromofluorobenzene	98.29
			1,2-Dichlorobenzene-d4	80.45
5103-12	NGW-4	4/2/97	Toluene	102.43
			Bromofluorobenzene	99.38
			1,2-Dichlorobenzene-d4	86.39
5103-13	NGW-17	4/2/97	Toluene	98.34
			Bromofluorobenzene	96.66
			1,2-Dichlorobenzene-d4	76.86

Table A2 - Evaluation of the Analytical Lot of Samples for VOCs for July 1996 through February 1998 (Mexican Laboratory) (Cont)

SAMPLE NO.	SAMPLE ID	DATE	SURROGATE	% RECOVERY
5103-14	NGW-18	4/2/97	Toluene	102.43
			Bromofluorobenzene	105.20
			1,2-Dichlorobenzene-d4	77.97
5103-15	NGW-15	4/2/97	Toluene	101.99
			Bromofluorobenzene	92.55
			1,2-Dichlorobenzene-d4	77.23
5103-16	NGW-3	4/2/97	Toluene	101.00
			Bromofluorobenzene	94.64
			1,2-Dichlorobenzene-d4	81.81
6214-1	NGW-17	10/4/97	Toluene	89.40
			Bromofluorobenzene	104.90
			1,2-Dichlorobenzene-d4	NA
6214-3	NGW-9	10/4/97	Toluene	89.90
			Bromofluorobenzene	105.60
			1,2-Dichlorobenzene-d4	NA
6214-4	NGW-3	10/4/97	Toluene	89.30
			Bromofluorobenzene	90.90
			1,2-Dichlorobenzene-d4	NA
6214-5	NGW-13	10/4/97	Toluene	88.70
			Bromofluorobenzene	94.30
			1,2-Dichlorobenzene-d4	NA
6214-6	NGW-12	10/4/97	Toluene	90.50
			Bromofluorobenzene	97.70
			1,2-Dichlorobenzene-d4	NA
6214-7	NGW-10	10/4/97	Toluene	91.40
			Bromofluorobenzene	86.40
			1,2-Dichlorobenzene-d4	NA

SAMPLE NO.	SAMPLE ID	DATE	SURROGATE	% RECOVERY
6214-8	NGW-4	10/4/97	Toluene	89.90
			Bromofluorobenzene	92.70
			1,2-Dichlorobenzene-d4	NA
6214-9	NGW-16	10/4/97	Toluene	89.10
			Bromofluorobenzene	97.20
			1,2-Dichlorobenzene-d4	NA
6214-10	NGW-8	10/4/97	Toluene	89.70
			Bromofluorobenzene	111.20
			1,2-Dichlorobenzene-d4	NA
6214-11	NGW-1	10/4/97	Toluene	92.00
			Bromofluorobenzene	96.50
			1,2-Dichlorobenzene-d4	NA
6214-13	NGW-11	10/4/97	Toluene	89.30
			Bromofluorobenzene	90.20
			1,2-Dichlorobenzene-d4	NA
6214-14	NGW-7	10/4/97	Toluene	93.20
			Bromofluorobenzene	90.80
			1,2-Dichlorobenzene-d4	NA
6214-17	NGW-18	10/4/97	Toluene	91.40
			Bromofluorobenzene	109.40
			1,2-Dichlorobenzene-d4	NA
6220-1	NGW-6	10/7/97	Toluene	88.40
			Bromofluorobenzene	94.10
			1,2-Dichlorobenzene-d4	NA
6220-2	NGW-15	10/7/97	Toluene	88.50
			Bromofluorobenzene	102.90
			1,2-Dichlorobenzene-d4	NA
7688-1	NGW-7	2/19/98	Toluene	97.90
			Bromofluorobenzene	93.80
			1,2-Dichlorobenzene-d4	109.90

Table A2 - Evaluation of the Analytical Lot of Samples for VOCs for July 1996 through

SAMPLE NO.	SAMPLE ID	DATE	SURROGATE	% RECOVERY
7688-2	NGW-17	2/19/98	Toluene	101.70
			Bromofluorobenzene	95.20
			1,2-Dichlorobenzene-d4	97.90
7688-7	NGW-13	2/19/98	Toluene	102.20
			Bromofluorobenzene	89.30
			1,2-Dichlorobenzene-d4	100.10
7688-8	NGW-9	2/19/98	Toluene	96.00
			Bromofluorobenzene	96.20
			1,2-Dichlorobenzene-d4	106.60
7688-9	NGW-15	2/19/98	Toluene	104.00
			Bromofluorobenzene	93.90
			1,2-Dichlorobenzene-d4	94.30
7688-10	NGW-8	2/19/98	Toluene	102.50
			Bromofluorobenzene	94.80
			1,2-Dichlorobenzene-d4	96.40
7688-11	NGW-18	2/19/98	Toluene	97.40
			Bromofluorobenzene	87.10
			1,2-Dichlorobenzene-d4	109.00
Trip Blank		2/19/98	Toluene	109.70
			Bromofluorobenzene	88.20
			1,2-Dichlorobenzene-d4	93.90
7688-3	NGW-6	2/19/98	Toluene	100.60
			Bromofluorobenzene	87.10
			1,2-Dichlorobenzene-d4	109.60
7688-4	NGW-1	2/19/98	Toluene	103.70
			Bromofluorobenzene	87.80
			1,2-Dichlorobenzene-d4	111.10
7688-5	NGW-3	2/19/98	Toluene	93.70
			Bromofluorobenzene	96.70
			1,2-Dichlorobenzene-d4	105.00

Table A2 - Evaluation of the Analytical Lot of Samples for VOCs for July 1996 through

SAMPLE NO.	SAMPLE ID	DATE	SURROGATE	% RECOVERY
7688-6	NGW-4	2/19/98	Toluene	99.90
			Bromofluorobenzene	94.90
			1,2-Dichlorobenzene-d4	93.30

NA - Not Available
Note: Data includes April 1997 through February 1998. July 1996 through April 1997 will be made part of this report when it becomes available.